

### Abstract of the Disclosure

Provided are an apparatus for compensating for the characteristics of a laser diode and an optical transmitter including the apparatus. The apparatus includes: an optical output detector which detects an optical power output from the laser diode and converts the optical power into a voltage; a bias current controller which detects a maximum level of the voltage and outputs a first control value corresponding to a difference between the maximum level and a first reference voltage; a modulation current controller which detects a minimum level of the voltage and outputs a second control value corresponding to a difference between the minimum level and a second reference voltage; and a laser diode driver which outputs a drive current to the laser diode according to the first and second control values.